

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 November 2005 (03.11.2005)

PCT

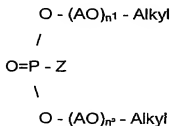
(10) International Publication Number
WO 2005/103334 A1

- (51) International Patent Classification⁷: C23G 1/18, 1/22, C23F 11/167
- (21) International Application Number: PCT/US2005/004745
- (22) International Filing Date: 15 February 2005 (15.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 04006942.9 23 March 2004 (23.03.2004) EP
- (71) Applicant (for all designated States except US): JOHN-SONDIVERSEY, INC. [US/US]; 8310 16th Street - M/S 509, P.O. Box 902, Sturtevant, Wisconsin 53177 (US).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): KANY, Dr. Harry [DE/DE]; Lauberweg 1, 67310 Hettendorf (DE). THEYSSEN, Holger [DE/DE]; Franz-Liszt-Str. 26, 67251 Freinsheim (DE).
- (74) Agent: HAMILTON, Neil; 8310 16th Street - M/S 509, P.O. Box 902, Sturtevant, WI 53177 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CLEANING AND CORROSION INHIBITION SYSTEM AND COMPOSITION FOR SURFACES OF ALUMINUM OR COLORED METALS AND ALLOYS THEREOF UNDER ALKALINE CONDITIONS



ammonium, alkali metal or alkaline earth metal cation, Alkyl is a C₅-C₂₂ alkyl or alkylaryl group, AO is a C₂₋₄-alkylene oxide unit and n¹, n² and n³ each are integers from 2 to 10.

(I)

(57) Abstract: The present invention relates to corrosion inhibitor systems, in particular to cleaning and corrosion inhibiting compositions for surfaces of aluminum or colored metals and alloys thereof under alkaline conditions, especially in the food and pharmaceutical industries. The cleaning and corrosion inhibiting compositions comprise as a corrosion inhibitor at least one alkyleneoxy alkylphosphate di- or triester having the general formula (I) where Z is either -O-M or -O - (AO)_n² - Alkyl wherein M is an